Climatological Data for March, 1910. DISTRICT No. 9, COLORADO VALLEY,

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The month was remarkable for sustained high temperature, the means in almost all parts of the district being the highest yet observed in March. In many respects the month resembled March, 1900, very closely, but the temperatures in the northern half of the district were materially higher than in that year. The excess in temperature was accompanied by a marked deficit in precipitation; there was no rainfall of importance until near the close of the month. The unusual warmth of the early part of the month caused rapid melting of the snow on the northern watersheds. As a consequence, the streams rose rapidly, and the ice broke up in large masses. Numerous ice gorges formed, backing the water onto the adjacent lands, and several bridges were carried out. Vegetation was more advanced than usual at the close of the month, but not sufficiently forward to be much harmed by the freeze of the 29th and 30th.

TEMPERATURE.

The mean of the 124 stations reporting was 50.4°, or 5.8° above the normal. The means were, as usual, highest in southern Arizona, but the greatest excesses occurred in the northern part of the district. The highest monthly mean was 72.0° at Casa Grande, Ariz., and the lowest, 24.4°, at Corona, Colo. By subdivisions the means and departures were: Western Wyoming, 33.9°, +8.5°; western Colorado, 39.5°, +6.9°; eastern Utah, 46.1°, +7.0°; western New Mexico, 50.6°, +6.1°; Arizona, 59.5°, +4.9°.

There was a remarkable uniformity in the distribution of the daily departures from normal throughout the district. The opening week was remarkably warm, the 4th being usually the warmest day, with temperatures from 12° to 20° above the normal. From the 8th to 11th it was slightly cooler, but still 4° to 5° above the normal. A second warm wave, with departures about 12° above the normal, occurred from the 12th to the 14th. Slightly cooler weather prevailed on the 15th, after which the temperatures rose steadily until the 21st, reaching their highest on that or the following day. On the 22d temperatures were slightly below the normal in southwestern Arizona for the first time during the month. The fall in temperature continued until the 26th, and the weather remained unusually cold until the 29th. At the close of the month the temperature was rising rapidly, and was above the normal in the extreme south. The highest reading was 100° at Parker, Ariz., on the 2d and subsequent dates, and the lowest, -7° , at Gunnison, Colo., on the 4th.

PRECIPITATION.

The precipitation during the month was about one-half of the normal, the mean of 174 stations being 0.56 inch, and the deficiency, 0.53 inch. A very few stations in northern Arizona and in Utah reported a slight excess; the greatest deficit occurred in the eastern part of the district, on the slopes of the Continental Divide. By subdivisions the means and departures were: Green, 0.64, -0.57 inch; Grand, 0.64, -0.81 inch; San Juan, 0.81, -0.59 inch; Little Colorado, 0.64, +0.04 inch; Gila and tributaries, 0.44, -0.53 inch; lower Colorado, 0.61, -0.13 inch. The greatest monthly amount was 3.14 inches at Corona, Colo.; 12 stations reported no precipitaion, and about the same number but a trace.

At the close of the month the average depth of snow at the high level stations in western Colorado was 12.6 inches, a decrease of 22 inches since the close of February. Several stations above 9,000 feet in elevation reported no snow except in the timber and on northern slopes.

On the 9th and 10th light snow fell at the higher stations on the Continental Divide; on the 15th there was a moderate fall in the San Juan Mountains and the adjacent parts of Utah and New Mexico. By far the heaviest snow of the month began in Utah and Arizona on the 25th, and extended over the remainder of the district on the 26th. On the 27th and 28th scattered precipitation occurred, and on the 29th the snowfall was generally heavy. At Flagstaff, Ariz., there was 2.13 inches of precipitation in 24 hours on the 25th and 26th, and in the neighboring mountains the fall was correspondingly heavy.

RIVERS.

The northern tributaries of the Colorado rose rapidly in the early part of the month and caused considerable damage, especially in the valleys of the Gunnison and Yampa. The crest due to this rise reached Yuma on the 15th, the discharge increasing from 7,900 second-feet on the 4th to 40,200 second-feet on the 15th. From the 15th to the close of the month there was a gradual decline. There was a considerable rise in the northern tributaries of the Gila following the heavy precipitation of the 26th. At the Roosevelt Dam there was a net gain of 25,000 acre-feet during the month. In southwestern New Mexico, in the valley of the Mimbres, San Francisco, and upper Gila there was a serious shortage of irrigation water, and stock on the range was reported in poor condition. In this vicinity there has been very little snow during the winter.

MISCELLANEOUS.

There was a decided excess of sunshine in the northern half of the district, about 22 days being reported clear. At Grand Junction there were 17 days with more than 90 per cent of sunshine. In Arizona the percentage of the possible sunshine ranged from 85 per cent at Flagstaff to 91 per cent at Yuma. The relative humidity was low, especially in the north. There was much high wind from the 22d until the close of the month.

The following account of the March flood in the White River is based on the report forwarded by Mr. T. Baker, Cooperative Observer at Meeker, Col.:

The flood was due primarily to the steady cold of the winter and the formation of an ice gorge of great depth. Before the thaw the river was frozen to a depth of 10 feet in the main channel, and the adjacent lowlands were covered with water and ice. With the coming of the warm weather early in March, the snow on the mesas and hillsides melted rapidly and the creeks and arroyos soon carried down a greater volume of water than previously known. The channel being filled with ice, the water overspread the low-lands along the river. Many people living in the lowlands had their houses flooded from 1 to 3 feet in depth, the damage extending all the way from Mecker, Colo.. to the Utah-Colorado border, a distance of 90 miles. There was no loss of life and but little loss of stock. All the bridges on Pice-ance Creek, an important tributary of the White, were carried out. On the White River proper many bridges were injured, but none carried out, as the authorities had caused them to be raised above the danger limit. The flood was the greatest and most sudden since the settlement of the county.

THE POWER PROJECTS OF THE SALT RIVER VALLEY, ARIZ.

One of the most interesting features of the Salt River irrigation project, Arizona, is the development of power and the marvelous possibilities in that direction that a study of natural conditions discloses. The original idea of the Government Reclamation engineers was to develop power for pumping purposes only, after using the power developed at the Roosevelt Dam, for construction work. Supervising Engineer L. C. Hill states that there can easily be developed along the Salt River, and the canal system in the valley, between 25,000 and 30,000 horsepower. Four thousand horsepower has already been developed at the Roosevelt Dam, and as soon as the 3 new water wheels are installed, 8,000-horsepower will be available at the dam. Five thousand horsepower will be developed at MARCH, 1910.

once in the valley, making a total of 13,000-horsepower available for all uses. Of this, about 5,000-horsepower will be needed ultimately for pumping. About 1,000-horsepower will be used in irrigating the Gila Indian Reservation, at Sacaton, and the rest will be sold by the Government. Contracts have already been let by the Reclamation Service for furnishing about 2,000-horsepower, and a number of other contracts are now pending. The first contract for power is already yielding returns of about \$60,000 per annum.

The Salt River Valley is developing rapidly, and several new electric railways are about to be constructed and old ones extended, and the owners of these lines expect to purchase power from the Government. The net returns from the power plants constitute a credit to the project, and will go far toward reducing the operation, maintenance and construction charges. After the project has been paid for, the entire operation, maintenance and betterment charges may be met by the profits on the power plants. Light and power are already being furnished in the city of Phoenix, and will be leased to the territorial institutions and for various other manufacturing industries

The transmission line, recently completed, extending from Roosevelt Dam, over 100 miles down the Salt River Valley, will transmit power to pump underground water for about 40,000 acres of land, and part of the wells are now sunk. About 10,000 acres will be furnished with water from wells in 1910.

SNOWFALL IN THE MOUNTAINS OF COLORADO.

The amount of snow in the mountains at the close of March was much less than the normal on all watersheds. In the mountains, in common with the plains region, the weather conditions during the month differed greatly from those that are usual in March. There were few storms, with a correspondingly light snowfall. Bright sunshine and unusual warmth during the greater part of the month melted the snow covering of the higher valleys and unprotected slopes. The attending run-off, much of which was not utilized, would, under normal temperature conditions, have been delayed until April and May. However, melting has not yet begun at the very high altitudes, and only in a moderate degree in the timber and on northern slopes.

SNOWFALL IN ARIZONA.

The snowfall for March, 1910, was below the normal; being slightly greater than the amounts measured in February, 1910, and decidedly less than the measurements of March, 1909. Light snow fell over the southern counties on the 18th and 19th; copious rain fell over the central and northern counties on the 25th, changing into heavy snowfall in the Bradshaw, the White Mountain, the San Francisco and Mogollan ranges during the night of the 25th and the 26th, continuing to the 28th, and light snowfall in the mountain sections of the southeastern counties. The snow is soft and has begun to melt rapidly at and below the 8,500-foot level. Fully 95 per cent of the snow fell late on the 25th, the 26th, 27th, and 28th, depositing an average depth of about 10 to 40 inches in the mountain regions, much of which disappeared during the last 3 days

of the month. At the higher levels the surface snow has thawed and frozen alternately, causing it to pack and settle.

There was a good run-off into the river beds of the central and northern counties on the 29th, 30th, and 31st, continuing into April, thus affording a moderate volume of water for all general purposes. Conditions are somewhat different in the southern section of the Territory, where the precipitation has been largely deficient since the first of the year; the river beds are almost dry, and range grass has not yet begun to sprout.

The present water supply is fully 50 per cent less than that available during the same period of last year, and there are prospects of a further shortage in the water supply of the Gila, the Salt, and Verde drainage areas during the late spring and early summer months.

The snow will melt unusually early this season. There will be a moderate flow of water in the Colorado River during the coming summer months, while for the same period, in the Little Colorado River drainage area, there will be a shortage.

There is a marked improvement in the ranges throughout the central and northern counties.

The average depth of snow in the valleys and mountains at the end of the month was about as follows: In the Salt and Verde area, in valleys, trace, in mountains, 4.6 inches; Gila area, in valleys, 0.0 inch, in mountains, 4.7 inches; Agua Fria and Hassayampa area, in valleys, trace, in mountains, 0.2 inch; Little Colorado area, in valleys, 0.7 inch, in mountains, 35.2 inches.

THE CANYON DIABLO METEORITE.

Under operation, in Coconino County, near Canyon Diablo, Ariz., at the present time, is one of the most novel and important mining projects that has ever been undertaken in the southwest, that of the attempt to recover a large meteorite which is supposed to be imbedded in the ground at the point now being worked.

This gigantic mining task is under the supervision of Mr. S. P. Holsinger, a prominent mining engineer of the northern part of the Territory, well known in business circles.

In speaking of this movement, Mr. Holsinger stated that it was his firm belief, supported by the theories of many scientific men, that the immense displacement in evidence at the point he is sinking on, is not an extinct crater, but that the large opening is, in reality, due to the intrusion of the soil by a meteorite that entered the ground generations ago.

From rim to rim this opening is about 4,900 feet, and from what Mr. Holsinger can learn, it is supposed that the meteorite is lying at a depth practically of 600 feet. The dimensions of this heavenly body is computed as at least 300 feet in diameter, and has value in the minerals it holds, especially in nickel, at several hundreds of thousands of dollars.

Up to the present time the depth, in a vertical shaft, reached is about 200 feet, where a body of water was encountered. Pumping machinery is to be introduced, when sinking will be resumed. The formation favors this noteworthy work of exploitation; and, if the large ball is recovered, individual achievement will be handsomely rewarded.

TABLE 1.—Climatological data for March, 1910. District No. 9, Colorado Valley.

	Тлі	BLE 1	–Cl	imatol	logical d	ata f	or M	arch,	, 191	0.	Distr	ict No.	9, Co	lorado	V	alley	' .			
	·	ند	record, yrs.	Tem	perature,	in de	egrees	s Fah				ripitation		ches. ≕	iny days,	ays.	Sky.	e.	wind direction.	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure fro the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rai	¥7	Number of particular da Number of	cloudy day	Prevailing wi	Observers.
Wyoming.	Uinta	6,740		29. 2	+ 7.9	57	! 21	- 1	10	45	1 90	+ 0.67	. 0.80	19.0	 -	[16	14	1	DW.	J. M. Van Dervort.
Daniel Dixon Eden	Carbon					₆₆	20	_{i4}	30†					1.0		is			w.	Chas. Spillman. Eden Valley L. and I. Co.
Green River	Fremont	. 6,083 7,630		42.8	+ 9.1	75 .	20	16	. .	46	0.04		0.02	0, 2	3	22			w.	Geo. H. Maxon. Art. Doyle.
Pinedale	Carbon	7, 167 9, 232		30.0		59	20		117		1, 60			6.0 17.5	3	17 20			nw. w.	U. S. Forest Service. J. C. Fothergill.
Colorado. Ashcroft Breckenridge		9,483	8 20	31. 4 29. 4	+ 6.3	60 55	$\frac{21}{22}$	$-\frac{2}{3}$	30 30	39 44	0.59 0.33	- 2.72	$0.16 \\ 0.24$	8, 0 4, 4	5	10	15	6	hw.	Dan McArthur. Mrs. J. G. Thompson.
Cascade§	San Juan	.: 8,900 .: 7,500	4																	San Juan P. and W. Co. Lawrence Nolan.
Cochetopa	Saguache Mesa	. 9,085 . 6,000	17	45.4		70	201	19	30	32	0.14	-1.70	0, 09	4, 0 0, 0	3	13 26	1	4	nw. sw.	A. A. Wood.
Columbine Ranch	Delta	6,925	 3										0.32	$\begin{array}{c} 11.2 \\ -2.0 \\ -32.2 \end{array}$	4	18 22 21			sw. s. w.	Mrs. M. A. Caron. Geo. W. Wade. U. S. Weather Bureau.
Crawford (near) Crested Butte	Montrose	. 6,600		43.1		67	22		30	32 41	0, 12 0, 62		0.12	0, 0	i 2	25 26	2	4 3		C. W. Roe. Charles L. Ross.
De Beque	Mesa Delta	. 4,935 . 4,965	19	$\frac{49.3}{48.4}$	+ 7.2	76 79		25 19	31 10	49 50	0. 31 T	- 0,60	0, 30 T.	T. 0,0	2 0	26 26	4	1 .	<u>.</u> .	C. M. Paine. E. M. Getts.
Dillon Dolores	Summit	6,500	1.			74 70	92 19	26 22	ь 31	41 39	0, 50 0, 75 0, 64	- 1.02	0.34	6, 0 0, 8 1, 3	2 3 5	23 14 14	14	3	n. nw. nw.	Harry T. Hamilton. Geo. R. Simmons, jr.
Durango Eagle Eureka§	Eagle	6,598	17 5 3		+ 6.9	68	21	16	31	46	T.	- 1.02	Т.	т."	ő	26		3	w.	U. S. Weather Bureau. J. M. Witteman. San Juan P. & W. Co.
FraserFruita	Grand Mesa	4,510	ا ا	29.0 48.8	+ 6.7	60 78	22 21†	- 2 20	30 30	14 44	$0,40 \\ 0,28$	- 0.77	$\frac{0.20}{0.28}$	4. 1 0. 0	3	24 23			n nw	L. D. C. Gaskill, J. B. Willsea.
Gladstone §	San Juan Garfield	5,823	12	43. N	+ 5.0	73	20†	 19	31		0.44	- 0.68	0, 40	0.0	2	26	i	4	w.	San Juan P. & W. Co. E. A. O'Neil.
Grand JunctionGrandlake	Grand		19 2 18	51. 2 48. 3	+ 7.7		21 20†	$rac{25}{24}$:	30 31	35 35	0.75	- 0.60 - 9.06	0.50	T. 8, 5 0, 0	1 2 4	23 28 23	1	1 2 1	nw.	U. S. Weather Bureau. Mrs. Belle Kauffman. David Evans.
Grand Valley Gunnison Hayden	Gunnison	7,670	17	26.8	- 0.1	60		-7	4	43	0.05	- 0.60	0.05	Ť.	i	28	. <u>.</u>	i	sw.	Clarence Adams. C. W. Harkness.
Hesperus	La Plata	8,870 8,700	11	 		 . .	• • • • •												 	John S. Spear. L. J. Finch.
Kremmling (near)	Grand	7, 337	2 5			65 63		10	30	43	0.30		0, 20	4.0	3 2	19 19		6	sw.	P. H. Foley. H. A. Howe
Lay	Routt	6, 190	16		+ 8.8	69	6 20	8 15	30 30	44 47	1, 05 0, 38 0, 80	- 1.22	0.22	9, 6 2, 0 7, 0	6 3 3	20 24 25	2	4 5 1	n. sw.	J. F. Maurer. A. G. Wallihan. I J. Wade.
Leal	Montrose	6,620	4 11	45, 6 44, 4	+ 6.9	71 70	21† 20	18 10	5 30	51 38	0, 18 1, 46	- 0.6s	0.18 0.64	1. 5 9. 5	- 1 - 1	24 20	5	3	sw.	U.S. Reclamation Service. B. M. Krumpanitzky.
Marble Marshall Pass	Gunnison Saguache	7,951	1 7	38.2		62	201	4	10	43	$0.47 \\ 0.58$		$\frac{0.28}{0.58}$	$\frac{9.0}{18.0}$	5 2	21 22	5	4	ne. w.	Homer Harrington. William D. Lillard.
Meeker Montrose (near)	Montrose	5,811	18 21	42.3 44.2	+8.2 + 4.6	72 72 57	20 21† 21	15 18	30 50 10	44	0, 24 0, 00 0, 59	- 1.44 - 0.78		T. 0. <u>0</u>	3 0 2	23 - 23 25	6		sw.	T. Baker. R. Butterfield.
Nast	Routt	7,953 6,500 7 108	19 3	32.0 41.1 38.7	+ 9.5	70 67	20 19†	1 4 6	;;;; 1	39 42 48	1.30 0.76	- 0.86	0,80	6.7 11.0 4.0	191 ::	27 20			w. sw.	Arthur Hanthorn, Shaw Brothers, E. T. Walker,
Paonia Parshall	Delta	5,694	15 1			78	20†	20	30	38	0, 23 0, 11	- 0.80	0, 23 0, 06	T. 2.0	1 2	17		4	sw.	J. M. Underwood. F. A. Field.
Pitkin Rangely Redeliff	Gunnison	9,500 5,050	11	43.3		74	21†	i	··i†	11	0, 42	- 0.67	0.39	4. 2 T.	3	13	14	4	s. w.	Mrs. Maggie Cammann. Mrs. C. P. Hill.
RicoRiver Portal	Dolores	8,824	15 8	42.4			20				1,00 0,18	+ 0.10	0.31	$24.5 \\ 14.2 \\ 1.3$	5 4	$\frac{22}{18} \\ \frac{25}{25}$	9		sw.	Dorothea Greiner. Clinton B. Smith. U. S. Reclamation Service.
SapineroShoshone	Gunnison	. 8, 125	8	32.5		58	22	9	30	36	1, 04 0, 45			s. 4 T.	5	$\frac{23}{15}$	4	4	w.	W.F. Irving.
Silt Silverton (1)	San Juan	5,441 $9,285$	6:	32:5		60	19†	- 2	27	53	2, 30		0,90	20, 2	 fj	25	···i	5	sw.	A. P. Root, jr.
Silverton (near) § Spruce Lodge	Crand	9 600	9								1.33		0, 59	15. 0 3. 0			· · . <mark>1</mark>			San Juan P. & W. Co. H. J. Wills. M. E. Houston.
Steamboat Springs Tacoma § Terminal Danı § Uncompahgre Plateau	La Platade	7, 300	3			· • • • • •		· ····		• • • •			• • • • •							San Juan P. & W. Co. Do.
Whitepipe	Gunnison	. 19.000	. 10	28.4		 52	21	 - 3	30	38	$0.72 \\ 0.64$		0, 46 0, 50	8, 2 8, 0	3	16	. 4	3	×.	Martin Esser. C. E. Macy.
YampaUtah.			. !				• • • • •			• • • •	0.26		0.18	3.2	3	16		4		Percy A. Hughes. Maude A. Palmer.
Baker	Grand	. 7,560 . 9,500 5,500	I I		` 	741	- 1				2.60		1.32	1.5 26.0 0.0	2 6 3		5	3		E. H. Wolf. James Jeffs.
Emery	do	6,260	10 10	45.4		7 0 80	20 6	20	23†	42	Т.		T. 0.32	0, 0	- 0	27	0	4 7	n.	H. C. Wickman, Geo. H. Barney.
Fort Duchesne	Uinta San Juan	5,000	. 22	44.3	+ 8.1 + 5.4	76	20	$\frac{16}{25}$	30 27	45 36	$\frac{0.12}{1.80}$	- 0.55	0, 10 1, 00	0, 0		16 24	13 1	2 5	nw. s.	B. F. Mudd. Joseph A. Lyman.
Green River	Emery Wayne		13				21 21				0.23	+ 0.39	0.15	0,0 0,0 0,0 ·	2	24	7	0	sw.	B F. Miller. F. G. Weber. John P. Hite.
Hite La Sal Los	Garfield San Juan Wayne	3,000 7,000 7,000	10 10 18	43.8	+ 7.4	69	21 19 5†	20 5	30 29	32 45	0, 59	${-0.48}$	0, 49 0, 10	4.0 0.0	3 2	12	. 14	5		Gertrude W. Carpenter.
Mill Canvon	Washington	. 8,4(10	نيييا	52.1	+ 5.5	84	21	25	11	46	$\frac{2,90}{1.31}$	+ 0.40	$\frac{1.60}{1.08}$	22.0 T.	5 3	15 14	10 12	6 5	.	J. A. Gardner. Henry Crouse.
Moab Monticello Orderville	Kane		2 								1,00		0,65	1.2	7		· · · · · · · · · · · · · · · · · · ·		 	D. B. Perkins. F. A. Porter.
Price	Kane	5,557 6,700	9 29	40.6		67	6†	15	24 f	42	0.42		0.42	0.0	1	: 23	7	1	w.	C. A. Guiwits. J. W. Seaman. Joseph T. Atkin.
Scofield	Carbon	7,625	2	94.0	T 3. /		41				1.03	T U. 00								Joseph T. Atkin. O. E. Jorgensen. Wm. W. Flanigan.
StrawberrySunnyside	Wasatch	5,280	4 2	38.0		59	20†	12	30	33	1.30 0.35		0.40 0.30	13.0 3.5	6 2	: 13	11	7		U.S. Reclamation Service. Henry Cullum.
Strawberry	Wasatch	7,000 5,507	5																	Josiah Shurtz. M. M. Smith. E. P. Bolton.
Tropic	Garfield	. 7,000	13	45. l	+ 8.3	70	, 7 ,	21	24	40	1.13	+ 0.36	U. 76	2.0	; 3	1-7	14	S	nw.	E. P. DOITOR.

TABLE 1.—Climatological data for March, 1910. District No. 9—Continued.

	TA	BLE	.—0	limato	ological	data f	or M	1 arch	1, 19	10.	Dist	rict No	. 9—(Conti	nue	i. -—				
	·		yT.	Tem	perature,	in de	grees	Fahr	renhe	it.	Preci	pitation	, in in		lays,		Sky		ion.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy da	Number of	Number of part-	Number of cloudy days.	Prevailing wind direction.	· Observers.
Utah—Cont'd.	Uinta	5,050	15	44.8	+ 8.8	75	20†	19	30	44	0.07	- 0.86	0.07	0.0	. 1	22	7			Joab Collier.
New Mexico. Alma	Socorrodo	5,500	11	53.0 40.6	+ 6.2	85 71	6† 5	21 6	5† 11	63 51		- 0.79		0.0 7.0	1 1	8 14			sw.	M. A. Balke.
BlackrockBloomfield	McKinley San Juan	. 6,500 . 5,500	2 15		l:::::::			23 	21	44	0. 29		0. 15	2.5	3	11	20		sw.	John R. Milligan. Wm. J. Oliver. Fred Le Clerc.
Cambray	Lunado	4.054	11 33	57 9		84 88	25 8	30 28	30	١	1.13	- 0.31	1.10	0.0	1 2 1 4	17 19		7	w.	Southern Pacific Co. El Paso & Southwest. R.R
Deming Dulce Fort Bayard	Rio Arriba	6, 767	12 35	57. 2 43. 3 55. 0	+ 9.7 + 8.9	82 79	24 6†	16		50	0. 19 0. 82 T.	- 0.29 - 0.41 - 0.66		0.0 4.0 T.	4	18 17 24	8 8 7	. 5 6 0	w. w.	Southern Pacific Co. John M. Commons. U. S. Gen'l. Hospital.
Fort Wingate	McKinley San Juan	. 6,997 . 4,800	46 17	49.6	+ 5.8	81	22	19	30	50	0.05	- 0. 25	0.05	0,0	i	22	<u>.</u>	4	nw.	Post Hospital. Cyril James Collver.
GageGila (near)	Grant	. 4,470	11	56.8 54.0	+ 3.0	85 87	5† 5	$\frac{27}{22}$	27 26†	48 61	0.20	- 0.47 - 0.64	0.20	0.0	$\begin{bmatrix} 1 \\ 0 \\ 2 \end{bmatrix}$	20	8		e.	Southern Pacific Co. Miss Cozella Clark.
Hachita Haynes Hermanes	do Rio Arriba Luna	. 6,600									0.69		0.34	0.0 3.4 0.0	5 0	19 27 25	9 3 3	1	sw. nw. w,	El Paso & Southwest. R. R. Dr. John Roger Haynes. El Paso & Southwest. R. R.
Lordsburg Luna (near)	Grant	4,245 7,300	10 5	56. 6 41. 8		87 71	5 61	12	27†	52	0,00 T.	— U. 51	0.00 T.	0.0 T.	. 0	24 4	27	5	sw. w.	Southern Pacific Co. C. B. Martin.
Manuelito Mimbres Pratt	Grant	. 5,007	5	İ			6	22	30	!	0.00		0,00	T. 0.0	. 0	15 22	8 7	2	w. sw.	Mrs. H. F. Irick. Chas. Dennis.
Putnam Redrock	San Juan Grant	6,200 4,150	5				- 1				0.19		0.14	0.0 0.0 : 0.0	. 3 . 0	28 24 16	2 6 12	1	sw. w.	El Paso & Southwest. R.R. Richard Wetherill. Robert N. Woods.
Rodeo	ido	4,118 6,000	 5		 						0.19		0.16	0.0	2 2	27	 			El Paso & Southwest. R. R. B. A. Candelaria.
Arizona. Allaires Ranch Arizona Canal Dam	Cochise	4,184	· 14 : 15	66.2	+ 5.3	94	 21	43	28			- 0.63 + 0.13	0. 12 0. 80	T. 0.0	1 3	25 15	3	3	w. s.	Thos. Allaire. U.S. Reclamation Service.
ArtecBenson	Yuma Cochise	. 492 . 3,523	12 28	64.4 60.0	+0.9 + 3.7	96 91	5 7†	36 30	271	51 ¹ 51	0. 10 0. 13	- 0.28 - 0.38	0.10	0.0	1 2 2	22 17	10	7 :	w. e.	Southern Pacific Co. Southern Pacific Co.
Bonita	Graham	4.916	20	56.9	+ 4.8	78	3†			32	0.00	- 1.03 - 0.86	0.04	0.0	0	24 19	5	: 8	w. w.	Rev. J. G. Pritchard. A. Johnson & Co.
Bowie	Maricopa	.; 980	· 33 17	63. 7 63. 2	+ 8.8 + 3.5	89 94	6 8†	38 35	12 28	48 54	0.18;	- 1.06 - 0.51		0.0 0.0 T.	0 1 2	25 26 15	0 4 14	1	c. sw. sw.	Southern Pacific Co. H. E. Kell. R. A. Rodgers.
Casa Grande	Pinal	1,396	28	72.0 62.2	+ 9.9	99 91	13†i 6†	38 33	27	41 48	$0.75 \\ 1.00$	+ 0.30	0.75 0.78	0.0	2 1 2 2 1 1 1 1 1 1	25 23 15	6	2 2	w.	Southern Pacific Co. E. A. Howard
Chin Lee	ApacheGraham	. 8,000	3	48.8		. 77	5 20	19	27 30 30	47	2.54		0, 95	T. 19.0	4	19	10 8 8	6	n. 	Fr. L. Ostermann, O. F. M. H. R. Chlarson.
Cline	Gila	. 2,300	19 10 11	66. 6 61. 8 54. 6	$+5.9 \\ +0.8$	90 85	5 6 3†	39 34 24	27 31	46 52 55	1. 29	-0.16	0, 04 1, 22 0, 10	0.0	1 3 1	19 14 23	127	5	sw.	P. Reisinger. W. M. Clanton. Southern Pacific Co.
Columbia	Yavapaidodo	. 1,900 . 3,688	11 14	66. 6 62. 2	$\begin{vmatrix} + 0.8 \\ + 8.0 \\ + 5.6 \end{vmatrix}$	92 84	6† 5†	40 35	26† 26	36 -	0.40	- 0.68 - 0.86 - 0.92	0.35	0,0	2 1	23 22 20	8 5	3	s. sw.	M. J. Nolan. Congress Mine.
Courtland	do	5, 250	1 2 7	54. 4 60. 6		82 91	22 5	23 28	30 27	48 56	0. 15		0.15	0, 0 0, 0 0, 0	1	23 24 21	5 4 9	3	sw. c. sw.	El Paso & Southwest. R. R. N. Erickson.
Dudleyville Fairbank	Pinal Cochise	3,204	i.		:				l. ,		T.		т.	0.0		20	2	9		Dr. F. T. Wright. G. F. Cook. El Paso & Southwest. R. R.
Flagstaff (1)	Pinal	1.504	18 11	68. 6	+ 5.2 + 8.9	68 99	4	3 38	27 1†	43 52	0,45	-0.47	2. 13 0. 45	18.5 0.0	4	15 19	6	6	nw. w.	U.S. Weather Bureau. Pacific & Eastern R. R.
Fort Apache Fort Huachuca Fort Mohave	Cochise	5,100	39 25 39	51.3 60.6 66.0	$+5.4 \\ +7.9 \\ +2.7$	82 87 94	6† 7 5	23 31 34	30 30 1	45	т.	- 0, 90 - 1, 01 - 0, 38	0, 60 T. 0, 06	T. 0.0 0.0	2 0 1	13 29 26	17	1	ne. se.	Post Hospital. Post Hospital. A. F. Duclos.
GilabendGlobe	Maricopa	. 737	19	68. 6 59. 9	+ 5.5	98 86	6 4†	43 34	8† 26†	49	0.20	- 0.42	0.18	0.0	2	31 14	4 7 14			
Grand Canyon Greer		9,200	7 6								0. 55		0,30	5. 5	3 0	22		3	я.	Grand Canyon Ry. Mrs. M. Butler.
Hereford Holbrook Intake	Navajo	5,069	21 3	51.4	+ 5.5	82	5	19	30 ;	52	0.54	- 0. io	0.31	0,0	2 3	25 26 27	5 2 3	3 1	sw.	El Paso & Southwest. R. R. T. Larson. A. J. Robinson.
Jerome Keams Canyon	Yavapai Navajo	4,743	13 6	57.6 47.2	+ 6.1	81 73		30 23	28 1	28	2.48	+ 0.64	1.30	2. 7 T.	4 2	18 26	11 5	2	w. se.	Dr. L. A. Hawkins. L. R. Ballard.
KingmanLewis Springs	Mohave	4.029	8 1 33		+ 5.2						0.01		ń.ói	0, 0 0, 0	' 1 2	17	13	· · · · · · · · · · · · · · · · · · ·	a.	J. R. Gooding. El Paso & Southwest, R. R.
Mesa Mohawk Summit	Maricopa Yuma	1.244 538	14	66, 2 69, 0	+ 6.7 + 1.8	95 96 96	20 6	41 43	17 25	47	0.79 T.	+ 0.01	0.73	T. 0.0	. 2:	22 17 23	13	1 :	w. se. e.	Southern Pacific Co. C. L. Diehl. Southern Pacific Co.
Naco Natural Bridge	Cochise	4,579	1:								0,00	— 1.93	0.00	0, 0 1, 0	0 1	23 27 17	11 11		sw. sw.	El Paso & Southwest. R. R. D. G. Goodfellow.
Nogales Oracle Osborn	Santa Cruz Pinal Cochise	4,500	18						ļ [.]		0.04		0.04	 		18	12		sw.	Wallace & Summerhayes. W. H. Winters.
Paradise Parker	Cochise	3,940	13		+ 5.0	83 100	5 2†	21 38		49	T. 1	- 0, 29	Т.	0,0	0	8 24	20 5	3 2	sw. sw. s.	El Paso & Southwest. R. R. J. C. Hancock. Dr. H. V. King.
PaysonPhoenix (1)	Gila	5.500 1,108	1 15	51. 8 65. 7	+ 5.2	84 92	5 21	24 41	24		2.09 0.61	+ 0.12	1, 30 0, 59	3.0 0.0	3 2	12 20	9	10 10 1 2 :	8. e.	M. McDonald. U. S. Weather Bureau.
Pinal Ranch Pinto Prescott	Apache	5,660	15 5 45	48.5	+ 4.6	79		21	30	18	0.82:	- 0.82 - 0.52	1.41 0.40 1.03	0, 0 8, 0 3, 5	2 3 2	22 23 25	7 4 4	. 4	sw.	Irion & Craig. Mrs. C. F. Henning. Dr. J. W. Flinn.
Quartzsite Redrock	Yuma Pinal	800 1.856	2 ,	65.6		95 94		38 40	27†	48 46	0,00 0,20		0, 00 0, 11	0.0	0 2	25 12	17	$\begin{vmatrix} 1\\2 \end{vmatrix}$	sw.	W. E. Scott. W. J. Crowell.
Roosevelt	Gila Pinal	2, 175	6	64.8 67.3		89 :	21 7	40 37	28 27	40 49	1, 22 0, 38		$\frac{1.08}{0.22}$	0.0 0.0	3 2	21 23	8 7	1	 . 	W. A. Schoenfeld. M. F. Gilman.
Saint Johns Saint Michaels Salome		6,950	22 3	49. 4 43. 5 50. 8	+ 4.9	82 70 89	20†	20 21 28	30 27† 29	53 41 50	ი. 50	- 0.39	0, 22 0, 17 0, 04	5.0 4.3 0.0	3 · 4 · 1	20 16 19	10 4	5	sw. sw. w.	A. Shreeve. Rev. A. Weber, O. F. M. Mrs. M. B. Swartz.
San Carlos San Simon	GilaCochise	2,456 3,609	28 26	60.3	+ 4.9	91	4	31	2	58	0.43	- 0.70	0.36	0.0	2	21	6		w. 	F. S. Thomas. Southern Pacific Co.
SeligmanSentinelShowlow	Yavapai	5, 219 685	ii	67.5	+ 2.6		21†	40	ا !	40	0.00	- 0, 15	0,00	0.0	· · o ·	28	3	Ü		C. W. Dougherty. Southern Pacific Co.
SilverbellSupai	Pima Coconino	2,650 3,200	4		·		7†	39	26	29	0.34		0. 19	0,0	2	24	4	3.	w.	G. Woolford. Imperial Copper Co. C. E. Coe.
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TARKE 1 _Climatological data for March 1010 Destrict No. 9_Continued

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Stations.	Counties.	Elevation, feet.	Length of record, 313.	Mean.	Departure from the normal.	Highest.	Date.	Fahre	Date.	range.	Precij	Departure from the normal.	Greatest in 24 ni hours.	Total snowfall and unnelted.	Number of rainy days,	Number of clear days.	Number of part- 15 ly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observera.
Arizona—Cont'd. Thatcher. Tombstone. Truston. Tuba. Tucson. Vail Walnut Grove. Wickenburg. Williams. Williams. Winslow. Yarnell Yuma. Nevada. Las Vegas. Logan.	Cochise. Mohave. Coconiho. Pima. do. Yavapai. Maricopa. Cochise. Coconino. Navajo. Yavapai. Yavapai. Yavapai.	4,550 4,197 4,500 2,390 13,421 3,649 2,072 4,164 6,750 4,853 4,700	11 12 30 11 18 28 8 5 12 29	51. 0 63. 1 63. 8 60. 8 54. 0 42. 6 52. 0 67. 5	+ 5.9 + 4.4 + 4.4 + 2.0 + 1.2 + 3.0	90 89 70 87	5† 21 5 21 5 4 5 4 7 21	28 33 38 32 22 16 24	30 27 27 27 27 3 27 31 	42 52 39 49 62 43 53 46	0, 44 0, 10 0, 07 0, 78 0, 36 T. 0, 92 0, 40 0, 44 0, 02 0, 30		0. 36 0. 08 0. 06 0. 73 0. 30 T. 0. 40 0. 18 0. 02	T. 0.0 0.0 0.0 0.0 0.0 9.0 1.0 1.0	···3 22 23 0 4 1 1	18 23 19 26	10 9 20 7 5 4 2 12 9 3 12 17 17	4 3 2 2 4 18 1 8 3 2	ne. nw. sw.	Prof. J. H. Larson. F. N. Walcott. E. B. Atkinson. G. H. Kraus. University of Arizona. Southern Pacific Co. J. O. Carter. Santa Fe, Presc't & Phoenix Southern Pacific Co. E. J. Nordyke. J. F. Bauer. E. L. Bartholomew. U. S. Weather Bureau. Salt Lake Route. Ray M. Filcher.

^{*,} b, *, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

* Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

Data are from standard instruments not supplied by the U. S. Weather Bureau.

‡ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimated by observer.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for March, 1910. District No. 9, Colorado Valley.

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TABLE 2.—Daily precipitation for March, 1910. District No. 9—Continued.

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TABLE 3.—Maximum and minimum temperatures at selected stations, March, 1910. District No. 9, Colorado Valley.

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